

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 91-036  
NPDES NO. CA0028789

WASTE DISCHARGE REQUIREMENTS FOR:

RMC LONE STAR  
ELIOT PLANT  
PLEASANTON, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter the Board) finds that:

1. RMC Lone Star (formerly Lone Star Industries, Inc.), hereinafter called the discharger, by application dated August 16, 1989, has applied for renewal of a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger harvests and processes sand and gravel, and intermittently discharges decanted washwaters and rising groundwater to Arroyo del Valle and Shadow Cliffs Reservoir. Groundwater from quarry pits and onsite wells is used to wash fines from the aggregates being processed. Washwater from both primary and secondary processing facilities is pumped to settling ponds for in-plant reuse and recirculation to the washing plant. Excess water that accumulates in the settling ponds and quarry pits is discharged as follows:

DISCHARGE POINT	AVERAGE DISCHARGE RATE (mgd)	MAXIMUM DISCHARGE RATE (mgd)	DISCHARGE LOCATION
001	2.9	5.8	Arroyo del Valle; Lat. 37°39'40"; Long. 121°49'05".
002	2.9	5.8	Arroyo del Valle; Lat. 37°39'56"; Long. 121°49'44".
003	2.9	5.8	Shadow Cliffs Reservoir (1); Lat. 37°40'04"; Long. 121°49'43".

(1) Wastewater is pumped to Shadow Cliffs Reservoir on an as-needed basis requested by the East Bay Regional Park District.

3. Discharge points 001, 002, and 003 have been inactive since 1983, and will only be activated in the event of excess storm or groundwater. In the event of an increase in precipitation and rising groundwater the 001 discharge point would be the first, and probably the only, point activated.
4. Sewage wastes are disposed of to an onsite septic system.
5. The discharge is presently governed by waste discharge requirements in Order No. 85-03 (NPDES permit).
6. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives for Alameda Creek, Shadow Cliffs Reservoir, Arroyo del Valle, and contiguous waters.
6. The beneficial uses of Alameda Creek, Arroyo del Valle, Shadow Cliffs Reservoir, and contiguous water bodies are:
  - a. Water contact recreation
  - b. Non-contact water recreation
  - c. Wildlife habitat
  - d. Warm fresh water habitat
  - e. Cold fresh water habitat
  - f. Fish migration and spawning
  - g. Municipal and domestic supply (Arroyo del Valle only)
  - h. Agricultural supply
  - i. Groundwater supply
7. The Basin Plan sets surface water quality objectives for the Alameda Creek watershed above Niles, including Arroyo del Valle and Arroyo Mocho:

Total Dissolved	250 mg/l 90 day - arithmetic mean
Solids (TDS):	360 mg/l 90 day - 90th percentile
	500 mg/l daily maximum

Chlorides:	60 mg/l 90 day - arithmetic mean
	100 mg/l 90 day - 90th percentile
	250 mg/l daily maximum

The discharger uses existing groundwater as wash water for in-plant reuse, which does not represent a new source of TDS. Effluent discharged may contain TDS concentrations up to 800 mg/l without impacting aquatic resources in the Alameda Creek watershed above Niles.

8. The Basin Plan prohibits discharge to Alameda Creek, including its tributaries, during the dry weather period (May 1 through October 31 of each year). The Board may allow exceptions to the dry weather discharge prohibition when the Board finds

that the discharge does not contain characteristics of concern to beneficial uses in Alameda Creek. The following information supports an exception to the Basin Plan's dry weather discharge prohibition:

- a. The discharge contains no sewage-bearing wastes nor process waste added by the discharger's operations which are considered characteristics of concern to beneficial uses to Alameda Creek when no natural flow occurs.
  - b. Alameda County Water District (ACWD) has previously accepted the discharger's effluent limits and discharge conditions for temporary dry weather discharge from quarry operations as not threatening ACWD's downstream domestic water supply.
9. The reissuance of an NPDES permit for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
  10. The Board has notified the discharger and interested agencies and persons of its intent to reissue an NPDES permit for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
  11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Kaiser Sand and Gravel Company, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act as amended and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The treatment, reuse, or disposal of wastewaters shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge shall not contain silt, sand, clay or other earthen materials from any activity in quantities sufficient to cause deleterious bottom deposits, turbidity, or discolorations in surface waters or to unreasonably affect or threaten to affect beneficial uses
3. The discharge shall not contain sewage or toxic wastes.

B. Effluent Limitations

1. Effluent discharged shall not exceed the following limits:

<u>Constituents</u>	<u>Monthly Average</u>	<u>Annual Average</u>	<u>Daily Maximum</u>
a. Total Dissolved Solids (mg/l)	--	600	650
b. Turbidity (NTU)	--	--	40
c. Total Settleable Matter (ml/l-hr)	0.1	--	0.2

2. The pH of the discharge shall not be less than 6.5 nor greater than 8.5.
3. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

TOXICITY: The survival of test fishes, acceptable to the Executive Officer, in 96 hour static bioassays of the effluent as discharged shall achieve a value of no less than 70% survival.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
  - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
  - b. Bottom deposits or aquatic growths;
  - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
  - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
  - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of this unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:
  - a. Dissolved Oxygen 5.0 mg/l minimum. Median of any three consecutive months shall not be less than 80 % saturation. When natural factors cause lesser concentration(s) than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
  - b. pH Variation from natural ambient pH by more than 0.5 pH units.
  - c. Un-ionized ammonia 0.025 mg/l as N Annual Median; 0.4 mg/l as N Maximum.
3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 85-03 adopted on January 16, 1985. Order No. 85-03 is hereby rescinded.
2. Where concentration limitations in mg/l are contained in this permit, the following mass emission limitations shall also apply as follows:

Mass Emission Limit in lbs/day = Concentration Limit in mg/l x 8.34 x Actual Flow in mgd averaged over the time interval to which the limit applies.
3. Discharges to Shadow Cliffs Reservoir shall be made only upon request of the East Bay Regional Park District.
4. The discharger shall comply with all sections of this Order upon adoption.

5. The discharger shall comply with the attached self-monitoring program. The Executive Officer may make minor amendments to it pursuant to federal regulations (40 CFR 122.63).
6. The discharger shall comply with all applicable items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986.
7. Wastes from production and processing operations including storm runoff from areas used for loading or washing trucks, shall either be contained on site or routed into the sand and gravel wash water settling ponds.
8. The discharge shall provide the ACWD notice at least 24 hours prior to start-ups and planned shut-downs of discharge to surface streams.
9. This Order expires March 20, 1996. The discharger must file a report of waste discharge in accordance with 23 CCR, Chapter 3, not later than 180 days in advance of such expiration date as applicable for issuance of new waste discharge requirements.
10. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objections to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Steven R. Ritchie, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on March 20, 1991.



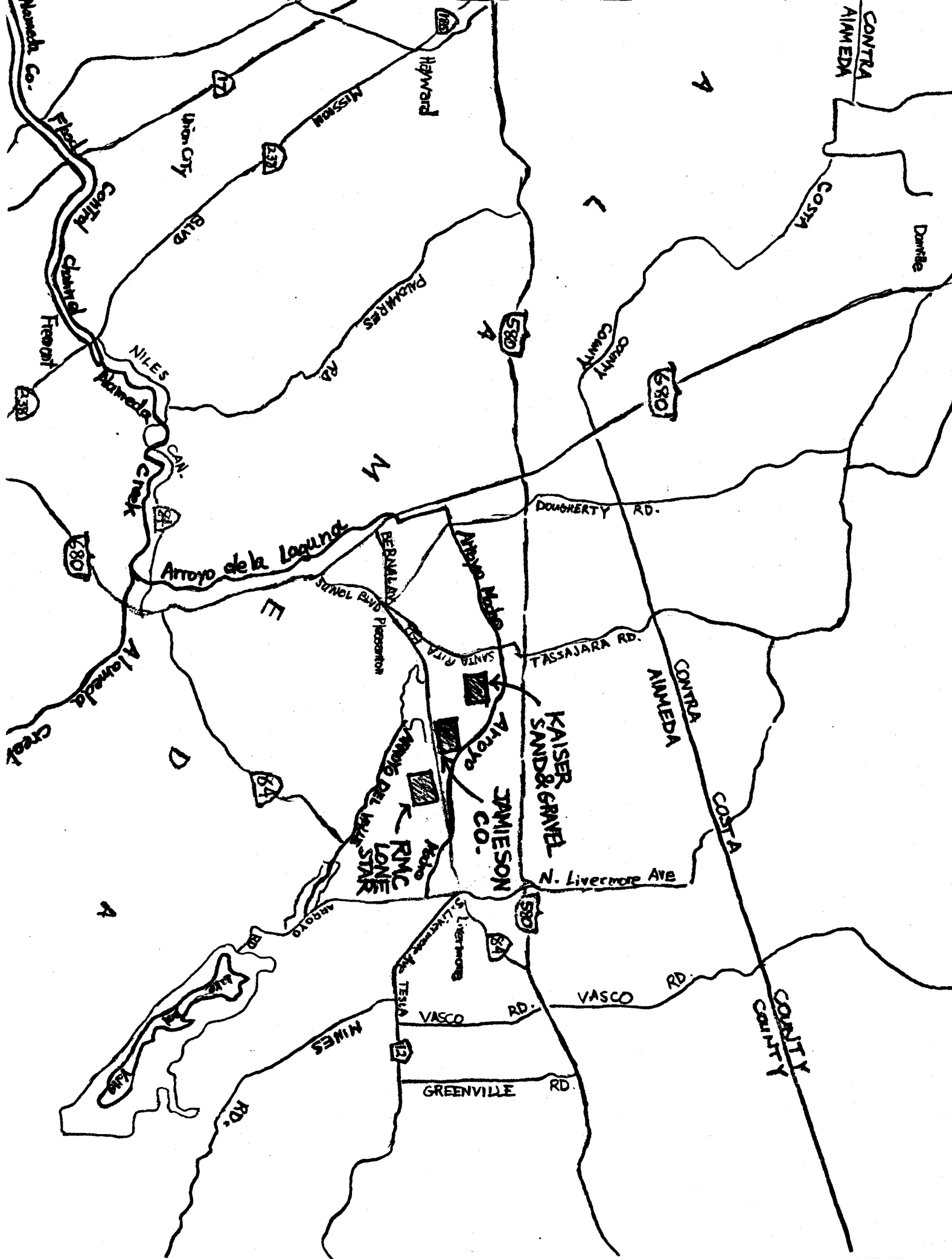
STEVEN R. RITCHIE  
Executive Officer

Attachments:

Location Map

Standard Provisions & Reporting  
Requirements, December 1986  
Self-Monitoring Program

[File No. 2199.9135]  
[Originator/MJR]  
[Reviewer/SAH]



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

RMC LONE STAR, ELIOT PLANT  
PLEASANTON, ALAMEDA COUNTY

NPDES NO. CA0028789

ORDER NO. 91-036

CONSISTS OF

PART A

AND

PART B



## PART B

### I. Description of Sampling Stations

#### A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-1	At any point in the outfall between the point of discharge to Arroyo del Valle (001) and the point at which all waste tributary to that outfall is present.
E-2	At any point in the outfall between the point of discharge to Arroyo del Valle (002) and the point at which all waste tributary to that outfall is present.
E-3	At any point in the outfall between the point of discharge to Shadow Cliffs Reservoir (003) and the point at which all waste tributary to that outfall is present.

#### B. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
C-1	At a point in Arroyo del Valle located 50 feet upstream from Discharge Point 001.
C-2	At a point in Arroyo del Valle located 50 feet downstream of Discharge Point 002.
C-3	At a point in Shadow Cliffs Reservoir located within 25 feet of Discharge Point 003.

\*

### II. Schedule of Sampling and Analysis

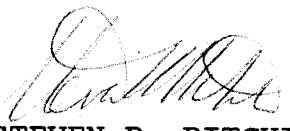
- A. The schedule of sampling and analysis shall be that given as Table I.
- B. A map showing the location and identity of each station sampled shall be submitted with each monitoring report.

### III. MODIFICATION OF PART A (dated December 1986)

- A. Paragraph F.3. is modified to include the following: "If no discharge occurred during the monthly reporting period, a letter certifying this shall be submitted to the Regional Board. The letter may be submitted quarterly after the facility has not discharge for at least one year."

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 91-036.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

  
STEVEN R. RITCHIE  
Executive Officer  
Effective Date 3/20/91

Attachments:

Part A (December 1986)